


5-1-2006

BS News

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bs news

building services news

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may 2006

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opinion

Grant Euphoria Highlights Lack of Knowledge & Understanding

Last month's leader — while welcoming and commending the introduction of a grant scheme for domestic renewable heat technologies — also included a word of caution. Specifically, we pointed to the lack of knowledge and understanding surrounding these technologies, both at consumer and installer level. Unfortunately, it seems as if we underestimated the extent of the problem.

Over the last four weeks we have been inundated with queries and questions on renewable technologies. Consumers in particular don't know who to turn to for best advice. Even manufacturers and distributors are in a dilemma.

There is no denying the massive response to the announcement of the grants. However, manufacturers and distributors admit that it is patently obvious from the questions they are being asked by consumers and contractors that there is a grave danger of systems being inappropriately specified, and/or incorrectly installed.

If that happens the initiative will prove to be a disaster. Instead of saving fuel and reducing CO₂ emissions, it will in fact increase fuel consumption and harmful emissions. Moreover, the inefficiency of the installed systems and consequent increased running costs will only serve to put the consumer off renewable technologies.

Once again we reiterate that the concept of grants to encourage the use of renewable technologies is an excellent one. However, there are fundamental support mechanisms which are essential if the potential benefits are to be realised. The fact that they don't exist is now obvious.

Nonetheless, all is not lost ... this situation can still be salvaged, but only if those in authority stop burying their heads in the sand.

trade news + product information

matching chrome radiator & lockshield valve

Heating installers can save time and costs with new Honeywell VTL120 radiator packs, containing a thermostatic radiator valve (TRV) and a matching lockshield valve. Both valves are chrome-bodied.

The VTL120 packs are available with straight-through or angled valves, and with a choice of standard 15mm connectors or a "small bore" pack providing 8mm and 10mm fittings.

There is no need to identify flow and return pipes when installing or upgrading a heating system as the valves employ Honeywell's reversible-flow technology, thereby also eliminating the possibility of water hammer and wasteful call-backs.

Contact: Honeywell Control Systems. Tel: 0044 1344 656000;
www.honeywelluk.com



Honeywell's chrome-bodies radiator and lockshield valve

series rh for humidity/temperature applications

The Dwyer Series RH transmitter range from Manotherm offers high accuracy, long-term stability and reliable operation for demanding humidity/temperature applications.

It is ideal for monitoring and controlling humidity, or humidity and temperature, in building energy management systems, HVAC, commercial, residential, clean room, museum, climate chamber and other space-monitoring applications.

Series RH is a 2-wire transmitter with a 4-20 mA loop-powered output. The state-of-the-art sensor recovers from 100% saturation and is calibration-free. A variety of mounting configurations is available, including duct mount and outside air models.

A combined humidity/temperature version (RHT) provides dual 2-20 mA output signals to control both humidity and temperature with one sensor, thereby reducing installation costs. This version is also available with an optional alpha-numeric LCD to provide local indication of humidity and temperature simultaneously.

Contact: Bob Gilbert, Noel Walsh or Robert Gilbert, Manotherm. Tel: 01 - 452 2355;
email: info@manotherm.ie



The new Irisys thermal imaging camera from Reg Farrell Engineering

thermal imaging from reg farrell

Reg Farrell Engineering has introduced the new quality-resolution, low-cost, thermal imaging camera from Irisys. It incorporates a multitude of operational benefits for predictive maintenance, mechanical maintenance in HVAC, and all other building service sectors.

Called the IR 4010, it was designed for thermographers wishing to identify, measure and record temperatures from -10°C to $+250^{\circ}\text{C}$ with a pixel resolution of 160×120 that provides crisp, high-resolution images. Up to 1000 high-quality images may be stored (and retrieved at full digital resolution) on the SD card.

Contact: Stephen Fox, Reg Farrell Engineering.
Tel: 01- 465 9010; www.rfe.ie

Raising the bar for 2-pipe VRF technology

ECOi 2 Way Multi Electric VRF

8HP to 48HP

SANYO continues to raise the performance standard with the latest in 2-pipe VRF technology, specifically designed to reduce running costs and CO₂ emissions by using the latest DC inverter technology. Higher performance with reduced sound levels confirm SANYO technology leads the way.

- Capacities 22.4 – 135kW
- Low sound levels 54dB(A) (1.5m from the outdoor unit)
- COP start at 4.1
- Provides cooling down to -15°C
- Connects up to 40 indoor units on one system
- Small footprint
- 12 different styles of indoor units with capacities from 2.2 – 28kW

Simple to install and maintain, the ECOi Multi range also qualifies for ECA.

SANYO - a good decision all round.



Efficiency 12% increase



Cost 15% reduction



Extended operation



SANYO
AIR CONDITIONERS

www.sanyoaircon.com

Published by AIRC VV600 Dublin, 2006



All round air conditioning by **SANYO**

trade news + product information

everything and the sync from lg

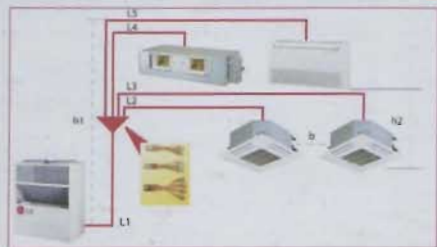
LG's new Universal Synchro outdoor unit is designed for applications where open space is a major issue. Efficient and quiet in operation, the Synchro name reflects the ease with which it can be synchronised for simultaneous on/off operation.

There are three Synchro variants — Duo, Trio and Quartet — and they take their names from the number of branch pipes associated with them, i.e., 2, 3 and 4. The branch pipes used are unique, offering a level of flexibility not previously available in this type of joint. They also maintain uniform refrigerant distribution.

Universal Synchro utilises R410A refrigerant to enhance efficiency and compliance with the latest environmental legislation. It also allows for a high level of innovation to be achieved in refining and modifying the dynamics of the system in the future.

Economy is further enhanced through the MPS-driven system which gauges the cooling or heating load and utilises the correct compressor — or combination of compressors — to best achieve the desired effect.

Contact: Austin McDermott, Core Air Conditioning. Tel: 01 - 409 8912;
email: info@coreac.com



LG's new Universal Synchro unit is now available from Core Air Conditioning

jg speedfit — living up to its name

John Guest speedfit, one of the world leaders in pushfit plumbing/fluid controls, is now available extensively throughout Ireland. An all white system that is claimed to reduce install times by 40%, it has all relevant certification, including IAB Class S.

Speedfit is a total plumbing system that ranges from half inch to one inch in all conceivable fitting sizes, plus some you may not have seen. Unique features include true demountability (no tools needed) and a "twist and lock" option for extra security.

Contact: Ian Kelly, JG Speedfit. Tel: 086 -173 4027;
email: iankelly14@eircom.net

data design system appoints xetec

Data Design System (DDS) has appointed Xetec distributor throughout the 32 counties of Ireland for its Building Services Partner software package.

Building Services Partner is a competitively-priced electrical design and documentation software tool, designed to bridge the gap between calculation/design software and estimating and job-costing software.

"This is a valuable addition to our existing product range", says Paul Geoghegan, Xetec Managing Director, "and it will serve to broaden the quality and diversity of the products and support services we provide."

Contact: Paul Geoghegan, Xetec. Tel: 01 - 276 0635.



The Building Services Partner software package available from Xetec

unipipe

Unipipe Underfloor Heating Nibe Heat Pumps Nibe Stoves



Nature's Heat Collected from
Surface Soil Boreholes or Lakes



Scandinavia's Most Popular
Wood Burning Stoves

A Perfect Match...like Coffee & Cream
Two of the Most Trusted Product Brands in
European heating
Unipipe & Nibe

Indoor Comfort Automatically Linked to the
Outside Weather giving greater Comfort with
No Wasted Energy



Unipipe underfloor heating



NIBE -Europe's Largest Manufacturer of Heat Pumps



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by Fitzpatrick & Mays Architects

www.unipipe.ie

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T: 01 2864888 - F: 01 2864764

E: info@unipipe.ie - W: www.unipipe.ie

Distributors for:



Do it once.... Do it right!

trade news + product information

treble coup for mech-elec



Michael Randall (left) and Sean Brady have joined Mech-Elec to coincide with its appointment as distributor throughout Ireland for Xpelair

As we went to press *bs news* learned that Xpelair had appointed Mech-Elec to distribute its entire range of ventilation and associated products throughout Ireland. "We are old friends", commented Jim Dunne, Mech-Elec Sales Director. "We worked together many years ago and it is exciting to renew our trading relationship with such a prestigious brand."

Perhaps an even greater coup for Mech-Elec is the appointment of Michael Randall and Sean Brady to look after the Xpelair range. Michael has been the face of Vent-Axia in Ireland for 20 years and he is now looking forward to the challenge of bringing this expansive product range to the many customers he has done considerable business with down through the years.

"I have the utmost respect for the Xpelair brand", says Michael, "having battled against it for so long, and I relish the opportunity to represent it as part of the Mech-Elec/Xpelair trading partnership."

Sean too has previous experience of the Xpelair brand having sold a great deal of the product during his time as Sales Director of Liberty Industries. He will now look after all Xpelair sales in the Munster region.

There has been a dramatic change in the Xpelair portfolio in recent years. Once primarily associated with domestic/commercial fans, today's diverse range includes light industrial products, as well as energy-saving innovations.

A typical example is the new Xcell collection of whole-house heat recovery units which offer a broad range of duty options with variable speeds and re-heat batteries. It includes high-performance, yet silently-operating, multi-spigot units with several different control options.

Contact: Michael Randall or Sean Brady, Mech-Elec. Tel: 01 - 450 8822;
email: michael@mech-elec.ie; sean@mech-elec.ie

mark infra aqua & infra tp radiant ceiling

Two of the latest new product introductions from Mark Eire are the innovative Infra Aqua warm water radiant panels and the Infra TP radiant ceiling range.

The Infra Aqua range consists of high-output, low-weight, aluminium panels which are delivered in 6m lengths. There are eight standard models with a maximum width of 1200mm. Special versions such as illumination and ventilation can also be provided, along with a galvanised version for the headers for wet room applications.

Being completely flat they are also the ideal complement to interior aesthetics. Standard finish is polyester colour RAL 9010 but other colours are available on request.

The Mark Infra TP range is a radiant ceiling which is ideal for sports halls and similar demanding installations. Key features are painted steel pipes; aluminium contact profiles; steel profiles, RAL 9010 or RAL 9002; and 40mm glasswool insulation, sealed in polyethane sheet.

Contact: Michael Keane, Mark Eire. Tel: 026 - 45334;
email: sales@markeire.com



The Infra Aqua warm water radiant panels available from Mark Eire

Biggest Does Not Mean Best !



Small has the same bite
but delivers it with greater
care, attention, integrity
and flexibility.



Calpeda Pumps (Ireland) Ltd

Estate House, Dunshaughlin, Co Meath

Tel: 01 - 825 8212 Fax: 01 - 825 8215

email: sales@calpeda.com web: www.calpedaireland.com

 **calpeda**
CREATIVE TECHNOLOGY

trade news + product information

jaga oxygen — healthy warmth & clean air

Jaga Oxygen, the low-H₂O radiator with intelligent air-replacement system from Versatile, creates an energy-efficient, demand-controlled cycle of fresh, clean air for the home, school or office. Moreover, the acoustic design efficiently suppresses external noise, making it an extremely quiet system.

The air supply system is incorporated inside the radiator and this, combined with heating, ensures a draught-free temperature throughout the year. Too much CO₂ in the air indoors can lead to headaches, nausea and impaired concentration. In addition, high humidity means condensation – an ideal breeding ground for mildew and the dreaded dust mite. The solution? Monitored, balanced ventilation, which supplies only clean air when needed, keeps noise out and saves energy.

Room by room, CO₂ sensors and/or hydrostats on each Jaga Oxygen radiator continuously measure the composition of the indoor air and speed up the replacement of old, stale air with fresh, clean air.

The four key elements of Jaga Oxygen are:—

- Oxygen Refresh: decentralised supply units, built into the low H₂O radiators, suck in outside air and filter it;
- Oxygen Master: the central control unit regulates balanced intake and exhaust of air room by room;
- Oxygen Exhaust: the exhaust unit directs stale or moist air outdoors. An inconspicuous connection is provided in “moist” rooms such as toilets, bathrooms and kitchens;
- Oxygen Sensor: sensors and/or hydrostats continuously measure the air quality and/or humidity and control the entire system.

Contact: Andrew Treacy, Versatile Heating Solutions. Tel: 046 - 902 9444; email: sales@versatile.ie



A brochure on the new Jaga Oxygen air-replacement system is now available from Versatile Heating Solutions.



Copies of the new leaflet detailing the benefits of Thermo Air's HSU are now available

hsu offers healthy indoor environment

Because modern construction methods result in extremely well-insulated and airtight homes, maintaining essential levels of fresh air can be difficult. Hence Thermo Air of Carlow has developed the Home Supply Unit (HSU) which works on the balance-ventilation principle to provide optimal heating and air conditioning.

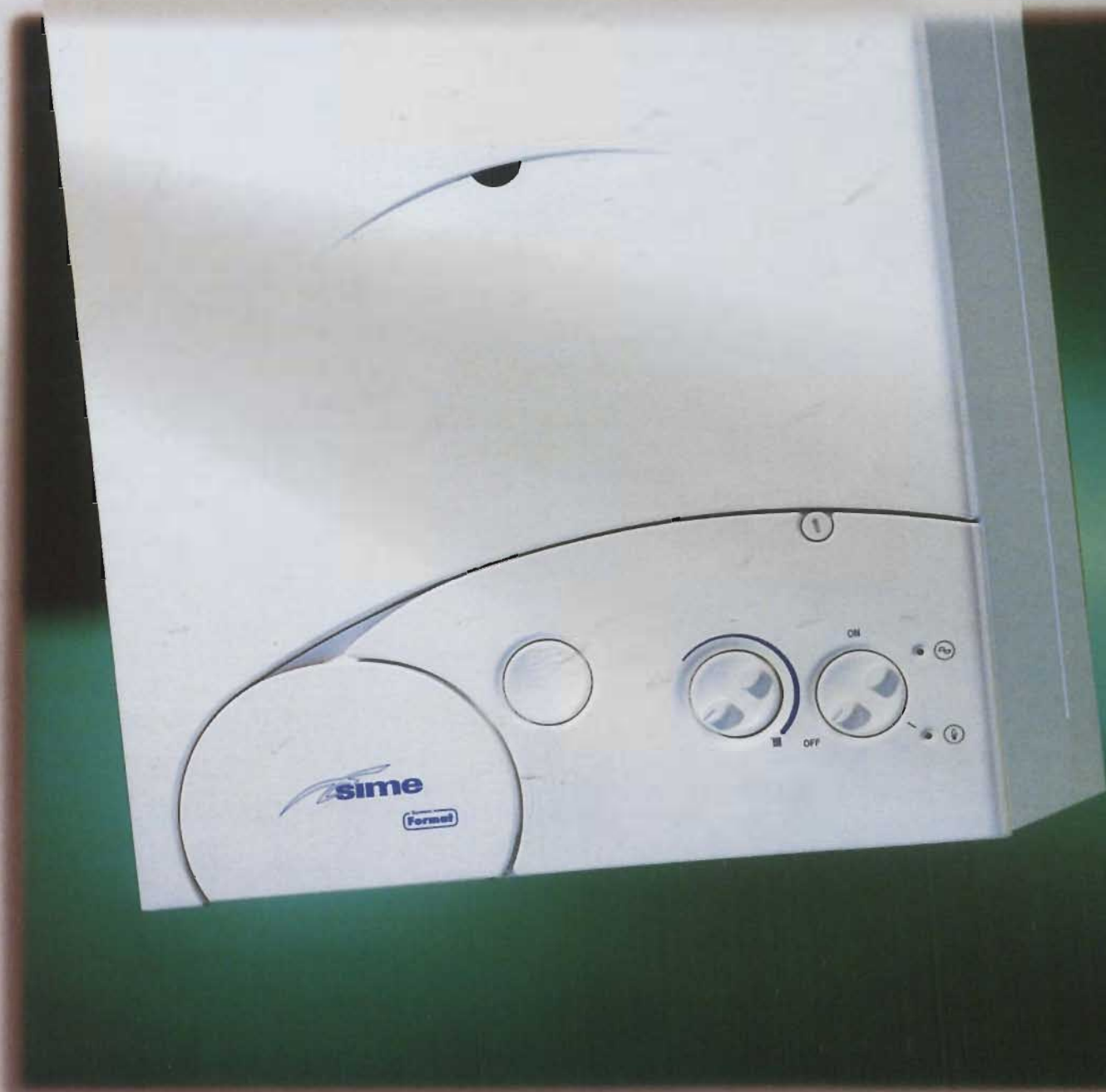
HSU can circulate and change the air continuously in all rooms and is ready to use as soon as it is connected to the air ducts and the water circuit of the central heating system. It is suitable for domestic installations, as well as public buildings, shopping centres, offices and schools.

Benefits include fresh air supply in all rooms; heat recovery from extracted air; constant air distribution; no problems with damp; air heating; cooling (optional); extraction of stale air from kitchen, bathroom and toilet.

Contact: Michael Burns, Thermo Air Ireland. Tel: 0591 31646; email: mike@thermoair.com

sime

et al.: BS News



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Format System



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Furry Park, Old Airport Road, Santry, Co Dublin. Tel: 01 - 842 7037 Fax: 01 - 842 7045

South Ring West Business Park, Tramore Road, Co Cork. Tel: 021 - 432 1066/7 Fax: 021 - 432 1068

trade news + product information

carrier residential & light commercial

Carrier has unveiled 10 new air conditioning models aimed at the residential and light commercial sector. Core product to both is the Xpower 1:1 Silentech split system with R410A refrigerant which incorporates the latest "blended" DC inverter technology, making it virtually inaudible at 26 dB(A). Capacities range from 0.9kW to 4kW cooling, and 0.9kW to 5.8kW heating.



Carrier Silentech hi-wall split system from Core Air Conditioning

For light commercial applications Carrier has introduced a new static ducted unit for its DX systems under the Satellite name. This uses a new v-shaped coil with external static pressure up to 130 Pa. It measures 285mm deep in the 5kW to 13kW range and 220mm deep in the 2.6kW to 3.5kW range.

Models in the Satellite range are Eurovent certified, are flexible in terms of airflow direction, include a fresh air inlet option, and can be controlled by infra-red as well as conventional hard-wired control.

Other additions to the Carrier portfolio include the flat-fronted Sensation hi-wall range in capacities from 5kW to 10kW; a re-designed console unit for floor or ceiling mounting at 10kW and 12kW; four new cooling-only inverter models ranging from 4kW to 7.5kW; and a new 4kW heat pump 2:1 twin split system.

Contact: Austin McDermott, Core Air Conditioning. Tel: 01 - 409 8912; email: info@coreac.com

sei energy-efficiency training courses

SEI provides courses covering energy management and energy efficient technologies. The courses are intended to provide an overview of the particular topic, combined with practical examples of how the technologies and techniques can be applied. Forthcoming courses include:—

Energy Management — Alexander Hotel, Dublin, 27/29 June 2006;
Boiler Efficiency — Alexander Hotel, Dublin, 13 September 2006;
Energy-Efficient Lighting — Silver Springs Hotel, Cork, 20 September 2006;
Energy Auditing — Great Southern, Dublin Airport, 1 June 2006;
Refrigeration — Silver Springs Hotel, Cork, 14 June 2006;

Contact: Deirdre Farrelly, SEI. Tel: 01 - 808 2087; deirdre.farrelly@sei.ie

iphe student awards

The conference centre at the The Red Cow hotel was packed to the rafters recently on the occasion of the ninth IPHE student awards. The competition, which rewards students in Phases Two, Four and Six with gold, silver and bronze medals, drew a record entry of 249 nominations from training centres throughout the country.

ATP, the specialist heating and pipeline suppliers, were once again part sponsors of the event. David Daly, Managing Director, ATP said: "I am particularly pleased to see the growth as I was personally involved in its inception in 1998 and I am a member for the last 20 years. I wish the organisers continued success".

The winners hailed from the four corners of Ireland with one gold medal winner now working in Australia from where he sent his winning entry.



Peter Kelly, ATP with John Smart, IPHE; David Daly, ATP; and Peter Brunton, IPHE President.

using nature to devise ... et al.: BS News

design-led

technology-driven

heating concept solution



runtal



jaga



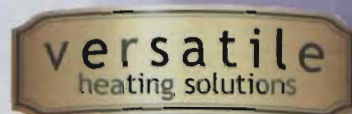
vogel



zehnder radiant
ceiling panels

Versatile Agencies has taken the traditional concept of heating and given it form. This is achieved by applying its own extensive knowledge and experience to the product portfolios of cutting-edge, innovative, brand leaders like Jaga, Runtal Zehnder and Vogel.

Heating solutions are custom-designed to facilitate each application. Where visible, the heat emitters contribute to the aesthetics of the setting; however, they can also be unobtrusive to the point of being invisible.



Beechmount Industrial
Estate, Navan, Co Meath

Tel: 046 - 902 9444
Web: www.versatile.ie

trade news + product information

bg technical manual & meetings

Bord Gáis Networks has just published an *Industrial and Commercial (I/C) Technical Booklet* for construction professionals. The new publication provides guidelines and technical recommendations for connecting natural gas installations in industrial and commercial premises.

Architects, specifiers, consulting engineers and gas installers will have an opportunity to become familiar with this new publication through a series of one-hour technical presentations currently taking place at a variety of locations around the country.

The soon-to-be introduced new Certificate of Conformance for Non-Domestic Connections will also be explained at the presentations.

Contact: Barry Grouse at
Tel: 01 - 602 6452; email: bgrouse@bge.ie



At the Limerick presentation were installers John Browne, Noel Drummond, Kevin Costello and Dave Griffin, with Martin Corcoran, Bord Gáis Networks.



At the Cork presentation were Mick Leahy, I/C Sales Representative, Bord Gáis Networks; Catherine O'Flynn and Dominic Keating, Waterman Engineering; Richard O'Farrell and Mark Nolan, EDC.

safe handling of refrigerants

Refrigeration Skillnets has arranged a number of extra dates for training and assessment on C&G2078 Safe Handling of Refrigerants. Bookings are now being accepted for Monday and Tuesday, 19/20 June, for sessions to be held at DIT Bolton Street, Dublin 1.

To secure places on either of these courses download a course enrolment form from www.refrigerationskillnet.ie and return it, together with payment, as directed.

Contact: Enda Hogan, Refrigeration Skillnet. Tel: 056 - 44211; email: refskill@eircom.net

calpeda boost for balbriggan

Calpeda Pumps (Ireland) has just commissioned a new booster pump station to serve the town of Balbriggan in North County Dublin. This is one of a number of such pump stations designed and installed by the company for Fingal County Council in recent months.

Located at a site called the Kilsough Reservoir in the middle of a housing estate, one of the primary requirements was that the noise levels had to be minimal. That said, the system installed has a massive capacity and is designed to serve a population of up to 50,000 people. It is capable of delivering 500cu m of water per hour, which is the equivalent of 12 million litres of water per day.

Other benefits of the new system include variable speed control; constant pressure with varying demand; fully-programmable control; dry running and burst mains protection; auto rotation of duty pump; and volt-free contacts for remote monitoring and alarms.

Contact: Graham Fay or Stephen McDowell, Calpeda Pumps (Ireland).
Tel 01 - 825 8212; email: info@calpedaireland.com



The new booster pump station commissioned by Calpeda Pumps (Ire) to serve the town of Balbriggan, North County Dublin.



full range of
Ventilation Solutions
for domestic, commercial
and light industrial
applications

Mech-Elec



MECH-ELEC
Head Office,
B4 Calmount Business Park, Dublin 12
Tel: 01 - 450 8822
Fax: 01 - 450 8227
email: info@mech-elec.ie



trade news + product information



Ronan Flanagan, Sales
Executive Ireland, Vent-Axia

vent-axia to maintain strong presence

Following the recent closure of Vent-Axia Ventilation (*bs news* March 2006), the company has reinforced its continuing and long-term commitment to the Irish market by appointing Ronan Flanagan dedicated Sales Executive for the Republic of Ireland. Moreover, it has appointed three distributors to handle the range — Aervent Group, Edmundson Electrical and National Electrical Wholesale — who between them have a network of 16 separate branches strategically located through the country.

Ronan is currently visiting Vent-Axia's existing customers to advise them of the new arrangements and to re-assure them of the company's commitment to meeting their future needs. His primary role going forward is to liaise closely with consulting engineers, mechanical and electrical contractors, and electrical wholesalers so that they are kept fully informed of the breadth and scope of the Vent-Axia range, and of new products as they come on stream.

He will also provide technical support directly to these sectors, and also to the field sales teams of the appointed distributors. This will include direct product support relating to the Vent-Axia range, along with more generic industry-related information such as building regulations and other regulatory controls and compliance requirements.

Contact: Ronan Flanagan, Vent-Axia. Tel: 087 - 124 5170; email: ronan.flanagan@vent-axia.com; www.vent-axia.com

masterair sales in receivership

As we went to press a receiver was appointed to Masterair Sales Ltd, the long-established air handling manufacturer/distributor operating out of premises located at Killeen Road in Dublin 12. While a shock to some, it came as no great surprise to most industry observers. Rumours of the company being in trouble, and suggestions that it was seeking investors and/or was for sale, have been circulating within the sector for some time now.

That said, the sudden closure of the business on Wednesday, 10 May last, took virtually everyone unawares. The confusion which followed was exacerbated by the fact that the directors of the company issued no formal statement to the industry at the time.

However, that undesirable state of affairs is now being addressed following the appointment of Padraic Monaghan of KPMG as receiver on Monday, 22 May. He told *bs news* that all parties affected by the closure had already been written to and that they would be kept fully informed of developments as they unfold. The situation as we go to press is that the business is in receivership and is up for sale. Notices to that effect have appeared in the national press. Those seeking further clarification of the situation can contact him directly at Tel: 01 - 410 1707.

□ In the meantime, we have been asked to publish the following communication from Masterair Services Ltd.

"Due to some recent misunderstandings in relation to Masterair Services Ltd, we have issued the following point of clarification:— It has come to our attention that a company which we had former links with (Masterair Sales Ltd) has recently ceased trading and has been placed in receivership. We would like reassure our customers and suppliers that we are in no way connected with, or affected by, this development.

"Masterair Services Ltd has been trading successfully since 1989, growing year-on-year to a point where we now have a highly-motivated staff, an increasing market share, and a commitment to high-quality customer service. We continue to actively seek new contracts and grow our market share".

trade news + product information

quinn creates new radiator division

As Quinn Group's new €240 million production facility at Newport in Wales nears completion, the company has created a new radiator division called Quinn Radiators to focus specifically on the radiator business. Robert Copley has been appointed General Manager of the new facility and the objective is to make the UK an exporter of radiators with enhanced facilities, an extensive product range, and improved service for customers. Merriott, Barlo, Veba and Warmastyle will remain the primary brands.

As part of this restructuring a dedicated management team has been formed to focus on the Irish market. This team, along with the Quinn Merriott factory in Clonmel, will operate under the direction of Declan Cunningham as General Manager with Frank J Donohoe remaining as Head of Sales.

Tony Kennedy has been appointed Area Sales Manager for the south of Ireland with Declan Loane taking responsibility for Northern Ireland as Regional Sales Manager. He will be assisted by Frank Allen, Sales Engineer.

These appointments and strengthening of the specification sales team reflect the company's commitment to the specification market ensuring total cover for the country so as to be best placed to support its customer base. This new structure has been put in place to assist with the growth within the radiator division.

The sales teams will continue to be strengthened and integrated over the coming months, enabling Quinn Radiators to provide a complete radiator supply service to existing customers, while also facilitating development into new markets.

Contact: Frank Donohoe, Quinn Radiators. Tel: 01- 231 0724; Mobile: 086 - 257 6854;
email: frank.donohoe@quinn-radiators.com

sime versatility from hevac

Hevac has just taken delivery of the latest range of boilers from Sime, one of the foremost boiler manufacturers in Europe. These new models encompass features and benefits designed to meet the needs of today's marketplace, especially in respect of energy performance and environmental compatibility.

Innovation has been the hallmark of the Sime portfolio for over 30 years with vast amounts being invested annually on research and development. The result is a continuous stream of advanced and increasingly-innovative products which push the boundaries of traditional thinking in respect of heating technology concepts.

Complementing this inventive process is an equally-dynamic emphasis on new manufacturing processes. Its factories in Legnago, Verona and Veronella are the epitome of modern production facilities which match the advanced design of the vast and varied product ranges produced. The engineering and technology employed in these plants and production lines are the most advanced anywhere in the world.

Hence the latest feature-laden ranges now coming to the marketplace. These include gas-fired floor-standing and combination boilers; low-emission floor-standing gas boilers; wall-hung gas boilers; wall-hung gas boilers for outdoor installation; condensing boilers; oil-fired boilers; oil-fired integrated units; and accessories.

Contact: Tony Murphy, Hevac. Tel: 01 - 419 1919;
email: tonym@hevac.ie



The Sime portfolio is full of advanced and increasingly-innovative products which push the boundaries of traditional thinking in respect of heating technology concepts.

Integrated Building Management Solutions Deliver Big Business Benefits

Many organisations face a seemingly impossible dilemma — how to improve the performance of their building(s) yet cut costs without detriment to comfort. This scenario is exacerbated by the growing need to tighten security and satisfy regulatory compliance — all with reduced resource allocation. The advent of the new EU norms for energy savings and the need for increased energy performance of buildings, the EU Energy Performance Building Directive (EPBD), are but two current examples. Quite simply, companies seek to do more with less, writes *Gerry Pembroke, Honeywell Building Solutions*.

The key to realising this objective lies in the ability to integrate core building automation systems and from this, share information and centralise vital building management functions. In delivering an enterprise-wide view, an integrated solution enables automated building control processes to perform on the basis of all available information within the different systems — increasing productivity yet reducing costs (energy, installation and operating) and risk.

Very briefly, there are four different levels of building automation. They can be summarised as:—

Non-integration

Building management by silo (HVAC, fire, CCTV, security). Separate controls, non-existent data exchange or centralised event storage lead to high operating costs and expensive expansions;

Partial systems integration

Again no real intelligence — HVAC and CCTV remain separate from fire detection for example. It is characterised by minor data exchange, separate control and scant central events storage. Operating costs remain high;

Total facility integration

Interaction between building management (energy management, HVAC and utilities for example), security and life safety provides a common platform to develop applications that are scalable, inter-operable, available and manageable from a single point, a PC. Integrated building automation delivers peer-to-peer control, full data management, lower operating costs, reduced risk and improved functionality/efficiency;

Enterprise-wide integration

This supports transition from sharing information to managing information and the next step — workflow processes, complete systems inter-relationships, central alarm management and maximum control, security, life safety. It supports performance gain without detriment to service provision.

Tapping into the big picture delivers the wherewithal to optimise the business of buildings management, now and in the future. System integration can, for example, automate security functions and other building functions. There are several benefits to this, including the following:—

Increased operator efficiency
Integrated BMS deliver a 20-30% improvement in operator efficiency. Having one platform (PC) for multiple building controls cuts the time needed for training and risk of human error; it is significantly less complex;

Information management and report generation
An overlooked benefit of integration is the ability to make sense of lots of collected data. When information from access control reports and video information is combined and effectively analysed by the wider facility system, end users reap the benefit on a daily basis. They are safer, more secure and comfortable.



It is vital that companies considering an integrated building automation control platform take a holistic approach; that they thoroughly convince decision-makers that the benefits are unparalleled — that integration doesn't cost; rather it delivers measurable return on investment. With the business case made, most people agree that integrated building automation is far too compelling to ignore.

Integrated Building Management Solutions Deliver Big Business Benefits

By the same token, access control trend information can help to predict building load for HVAC, lighting, utility supply and housekeeping.

Automated reports are also effective tools in helping manage tenant expectations. By providing weekly or monthly reports on energy, conditioned air, lighting and security costs, integrated systems detail accurate operating charges.

The possibilities of integrating security with enterprise systems are virtually limitless.

Making integration happen

It is absolutely critical to select an integration partner that understands the integration philosophy, the need for regulatory and legislative compliance and, furthermore, your organisation's business ambition. It is also important

to implement automation controls that support development of a long term plan — that create flexibility and provide for future expansion.

It is vital that companies considering an integrated building automation control platform take a holistic approach; that they thoroughly convince decision-makers that the benefits are

unparalleled — that integration doesn't cost; rather it delivers measurable return on investment. With the business case made, most people agree that integrated building automation is far too compelling to ignore.

Contact: Gerry Pembroke,
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contact Ronan Flanagan | mobile 087 - 124 5170 | email ronan.flanagan@vent-axia.com

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Check out the benefits!

At last, a unique control system that provides flexible, energy saving air conditioning that's perfect for hoteliers everywhere!

The Mitsubishi Electric Programmable Logic Controller*1 (PLC) connects to our G50 control systems to provide maximum control for hotels everywhere. By simply programming the indoor air conditioning units to work in conjunction with existing key card systems, the PLC achieves the highest level of control.

When the hotel room is:

- > **Occupied with key card inserted.** The air conditioning is initially set to 'Auto' mode and 21°C*2. From this point onwards the guests then have full control.
- > **Occupied with the key card inserted and a window open.** When using the optional window sensor, the air conditioning is automatically switched off to save maximum energy.
- > **Unoccupied with no key card inserted.** The air conditioning is automatically set to 'Night Set Back' mode which maintains the room temperature between 16°C*2 and 26°C*2.

Using the PLC with our advanced control systems (G50 or Baby G50), enables all guest rooms to be easily monitored and/or controlled from a central point in the hotel, ensuring utmost comfort and maximum efficiency throughout.

It also:

- > **Ensures maximum comfort and efficiency** by preventing guest rooms being too hot or too cold prior to occupation.
- > **Saves energy** by avoiding guests inadvertently setting the wrong mode (ie. Heating/Cooling instead of Auto).

for **more** control than ever call **01-4198800**
or visit www.mitsubishielectric.ie



Mitsubishi Electric (Ireland) Ltd.
Westgate Business Park
Ballymount, Dublin 24
Tel: 01-4198800
Fax: 01-4198890
Email: sales.info@meir.mee.com
www.mitsubishielectric.ie

*1 No dedicated computer is required

*2 Setpoint and temperatures are configurable



Tinytag Data Collection & Retrieval Systems

The name Manotherm is synonymous with instruments and controls in Ireland. The company was established in 1958 with the objective of providing instrumentation and control solutions for both process and research industries using the most advanced products available.

Today the Manotherm portfolio is made up of international, market-leading brands from across the globe such as West Instrument, Johnson Controls, Rüeger, Seetru and Bindicator. Over the years the product offering steadily increased with the inclusion of Dwyer Instruments, Gems Sensors, Land Infrared, Jordan Valve, PR Electronics, Gemini Data Loggers and a host of others.

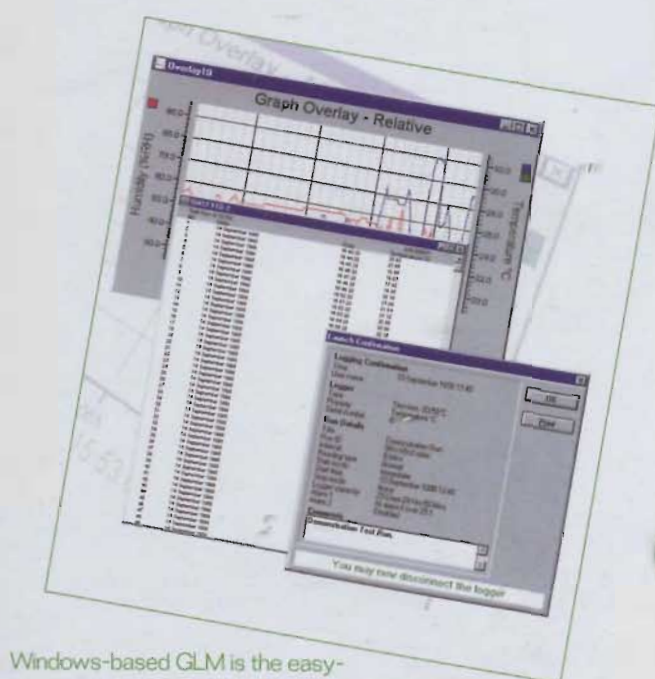
The expansive scope of the range provides competitively-priced precision instruments for measuring, transmitting and controlling pressure,

temperature, level and flow. The product types include flow, level, temperature, pressure, humidity, valves, and infrared measuring devices. Market segments catered for include pharmaceutical, food, water, power generation, chemical, semiconductor, HVAC, oil and gas.

Typifying the diversity and scope of the portfolio is the new range of Tinytag and Tinyview temperature and humidity sensors and accessories from Gemini Data Loggers. Gemini is Europe's leading battery-powered datalogger specialists with a range of products which work seamlessly with software specifically designed for the purpose. Called GLM International Software, it is used to start units recording, download the information, and analyse the collected data.

Standard features include dynamically-linked windows; unique time/data step-through feature; automatic detailed statistics; support for new inductive loggers; movable calculation lines which provide more flexible statistics.

Gemini can also supply software for the Palm range of hand-held units. This software has been written to enable customers to easily offload loggers in remote or



Windows-based GLM is the easy-to-use, powerful software for all Tinytag data loggers.

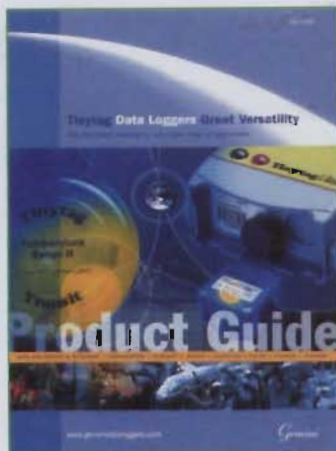
difficult locations. Once on the Palm device, the saved data is taken back to a PC where, following a HotSync operation, it can be viewed using GLM software in the normal way.

Further enhancing this capability is EasyView Pro. Totally compatible with the entire range of Gemini loggers and supported by a powerful maths package, this is a practical easy-to-use recording data base that transforms collected data into editable graphics.

EasyView allows the user import and combine measurements from several sources and instruments while intuitive functions include five powerful re-scaling and zooming tools to make sure

that the best possible schematic representation is achieved. There is also a facility to add comment tags to support the graphics.

Contact: Bob Gilbert, Noel Walsh or Robert Gilbert, Manotherm.
Tel: 01 - 452 2355;
email: info@manotherm.ie



The Tinytag Data Loggers product guide



The Tinytag instrument range offers high-accuracy, top performance and strength.

measurable energy savings



Facility managers need all the control they can get. And when it comes to validating and optimising energy management, Honeywell solutions deliver measurable improvement. Our ability to understand how your existing control regime and plant perform, combines with our proven technical expertise to bring about guaranteed energy savings and environmental improvements.

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Honeywell

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e-mail: gerry.pembroke@honeywell.com or visit www.honeywell.com

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Hotel-Specific BMS Solutions from Mitsubishi Electric

Mitsubishi Electric has developed a range of hotel-specific air conditioning solutions designed to meet, and exceed, today's market expectations. Whatever the application — from the relatively simple needs of a small hotel to the more demanding needs of larger, more complex environments — the comprehensive range provides the ultimate in energy efficiency and constant comfort.

Critically, the systems are designed to fully integrate with building and energy management systems, enabling total control of the entire building with the assurance of controlled comfort for guests, at an affordable price.

The range of indoor units is designed to fit easily into any hotel where space is an issue, with a choice of slim-ducted, floor or wall mounted units. They are extremely quiet in operation and can be up to four times as quiet as most typical indoor ducted units.

Solutions devised are also designed to eliminate waste energy. If the window sensors (optional) detect open windows in guest rooms they will automatically turn off the air conditioning.

The design of the remote controllers has also been simplified, the four-button display ensuring quick and easy use for all guests. Furthermore, the remote control covers are interchangeable so that all fittings can be matched to either brushed stainless steel, polished chrome or plastic.

The dedicated software packages enable a receptionist or facilities manager to monitor and control up to 2000 indoor air conditioning units throughout the hotel from their PC. Mitsubishi Electric has worked with its Automation Systems Division to offer a Programmable Logic

Controller (PLC) which is perfect for use in hotels. This enhances the control of air conditioning in each individual room. By programming the indoor units to work in conjunction with an existing key card system, hoteliers can now enjoy the highest level of control.

The control system also connects to the most widely-known hotel booking system — Fidelio, thereby resulting in the control of the hotel being handled by one comprehensive system. When a guest arrives the receptionist will activate their key card, linked to the Building Energy Management System, to enable them to operate the

air conditioning as soon as they get to the room.

With rising energy costs, Mitsubishi Electric is continuously devising the highest-performing air conditioning possible which can use the minimum amount of energy to the highest attainable effect. Cheap to run, these innovative systems quickly pay for themselves and offer a very affordable alternative to other means of heating and cooling.

Contact: Micheal Sheehan,
Mitsubishi Electric.
Tel: 01 - 419 8800;
email:
michaelsheehan@meukmee.com



Mitsubishi Electric has developed a range of hotel-specific air conditioning solutions designed to meet, and exceed, today's market expectations. Whatever the application — from the relatively simple needs of a small hotel to the more demanding needs of larger, more complex environments — the comprehensive range provides the ultimate in energy efficiency and constant comfort.

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Building Management Solutions for all Your Needs



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BMS industry
leaders

TREND

Design, commission and demonstrate new BMS installations;

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web: www.sygma.ie

Building Management Systems

Sygma Automation — Total BMS Solutions in Partnership With Market-Leading Providers

Sygma Automation specialises in the installation, service and maintenance of both commercial and industrial building management systems (BMS). While established just over 12 months ago, principals Kieran Cooke and Tim Jones are long-established in the industry, with over 25 years combined experience between them. This background includes extensive experience with Cylon BMS systems, while it is also an approved system integrator for TAC Satchwell and Trend.

For over a quarter of a century Kieran and Tim have been involved in the design, management and commissioning of high-profile validated BMS projects in the pharmaceutical and medical devices industry, along with providing similar services for commercial, industrial and leisure industries. These are the services they are now providing to all sectors as Sygma Automation, in full partnership with TAC and Trend.

TAC Satchwell is a market-leading provider of complete building automation solutions. A key feature is the "open"

nature of the technology which allows for total integration of the heating, cooling, access control, security monitoring, ventilation, fire and smoke control, and lighting across the entire building.

Because the open system uses standard, non-proprietary technology such as TCP/IP, LonWorks, BACnet and Ethernet, the delivered solutions are compatible with virtually all systems on the market and can fully integrate on one network.

Similarly, Trend is also to the forefront in delivering innovative building management solutions. It provides totally-integrated HVAC systems for all types

of buildings which monitor and control services such as heating, ventilation and air-conditioning, ensuring that they operate at maximum levels of efficiency and economy. This is achieved by maintaining the optimum balance between conditions, energy usage and operating requirements.

From the tender award stage through to client hand-over, Sygma Automation works with both the consultant and end-user to achieve the desired result. It provides all field instrumentation, control panels, and end-user software, along with a comprehensive hand-over manual in both electronic and hard copy forms. All projects undertaken are covered under a 12-month warranty.



Sygma Automation principals Tim Jones and Kieran Cooke who, between them, have over 25 years experience in designing, installing and commissioning building management systems for all industry sectors.

In addition to new installations, Sygma Automation provides support services for existing BMS installations. The concept of building management systems is to control the environment of a building in a practical, cost-effective and efficient manner. This, unfortunately, is not always implemented and is often due to poor maintenance and poor management of the BMS. Sygma has the ability to interrogate installed systems, advise on the best possible way to get the most out the system, and then carry out the agreed modifications.

To ensure continued trouble-free operation Sygma puts strong emphasis on initial client training for new installations and produces easy-to-understand operating manual for future reference. It also provides a comprehensive maintenance package which can include a 24-hour call-out service if required.

Contact: Kieran Cooke or Tim Jones, Sygma Automation.
Tel: 021 - 430 8824;
email: projects@sygma.ie
www.sygma.ie

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There is nothing else on the market that looks quite like Art Cool.

And to further add to its appeal, the Art Cool range has been extended to offer a choice of new finishes, while some of the fascia panels have been revised.

Better yet, that high level of attraction has been increased still further by the fact that Art Cool is fully compatible with our entry into the VRF area: the newly arrived Multi V system.

One that, we believe, will establish a new benchmark in the sector for technical superiority and energy efficiency.



It is initially available in two variants:

- **Multi V Plus** A 2 pipe system which runs from 5hp to 40hp
- **Multi V Sync** A 3 pipe system which runs from 10hp to 40hp, and features a highly efficient energy recovery system

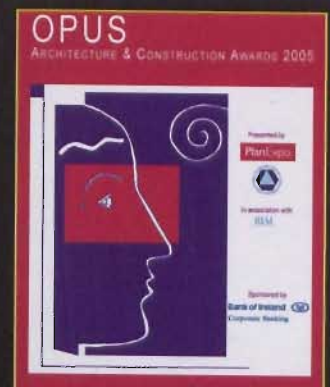
And both can run up to 40 indoor units, which can be a mix of Art Cool, cassettes, wall mounted and ducted.

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better business

small self-administered pension schemes & trusts

There has been very significant development in the pensions arena in the past number of years, most of which has been very favourable to director's of small and medium size businesses. Though Small Self-Administered Schemes or Trust's (SSATs) have been



Brian Culleton, Foresthill Financial Planning.

around for some years now, they have only recently become flexible enough to include the facility to borrow to purchase property. For the director who has a say in the running of his/her own successful business, an SSAT is the ideal choice for tax-efficient financial planning. It is ideal for the director who has a "hands-on" approach and who likes to be involved in his/her own investment strategies.

History & Facts

- Self Directed Pension Trusts are established under the terms of Chapter 30, Taxes Consolidation Act, 1997;
- The company creates an irrevocable Trust as a separate legal entity from the company. This Trust may only be accessed by the beneficiary;
- Contributions to, and withdrawals from, the Trust are related to income level and age;
- The individual acts as Co-Trustee and controls all transactions with joint signing authority, along with a Revenue-approved Trustee, known as a Pensioner Trustee;
- Investments or transactions involving the sponsoring company are generally not permitted except in special circumstances;
- Investment is not permitted in antiques, fine art, vintage cars and similar forms of alternative investments;
- retained earnings in the company can be transferred into the Trust for the benefit of the individual;
- All investments grow free of income tax and capital gains tax;
- The involvement of the director in the management of the Trust depends entirely on the level of personal interest. It can be a hands-on or hands-off arrangement. Investment expertise is not necessary;
- Transfers to the Trust can be varied each year to suit the financial circumstances of the company;
- The Trust is confidential and separate from the staff benefits scheme. This may suit directors and senior employees;
- Trusts are an ideal vehicle for the remuneration, motivation and retention of key employees who are not directors;
- Trusts can be used as part of an efficient business exit plan for family-owned companies by assuring the financial independence of the retiring generation;
- All Trust administration is done by the Pensioner Trustee;

Key Advantages of an SSAS

- You have total control, within certain parameters, to invest in assets of your choice. There is complete transparency of all initial and annual fees. There are no hidden charges and all fees are tax deductible. The assets of the Trust cannot be accessed by creditors in the event of company failure;
- Current profits and

How much can I/the business contribute?

The investment fund allows full tax relief with generous limits for both corporate and personal contributions (see table A).

better business

small self-administered pension schemes & trusts

Maximum Funding for Normal Retirement Age NRD 60 — Table A

Age Next Birthday	Funding as % of Initial Salary	Age Next Birthday	Funding as % of Initial Salary	Assumptions
30	109.75	45	176.16	10 years service to NRD
35	122.49	55	248.83	5% salary increase & 6% fund growth
40	142.12	60	505.39	Level contributions with NO existing benefits
				Management expenses of 1.0% trust

Investment Options

The Trust can invest in areas of personal interest to the director including property, private companies, equities, gilts, tracker bonds, deposits, investment funds etc.

Investing in Property

The Revenue Commissioners have introduced some criteria that specifically apply to property investment:—

- The vendor must be at arm's length from the scheme and the employer, including its directors and associated companies;
- The purpose of the acquisition is not for disposal or letting to the employer, including its directors and associated companies;
- The scheme must have sufficient liquid investments to meet its liabilities;
- The acquisition and development of a property with a view to its disposal is not regarded as a tax exempt scheme investment;
- The acquisition of property for personal use (rather than for investment purposes) is prohibited.

Once these criteria are satisfied, a scheme can invest in any type of property based anywhere in the world. This can include residential, office and industrial buildings.

Investing in Shares

- You decide which broker you would like to use;
- You can deal with any regulated broker in Ireland, UK, US or further afield;
- An account is opened with this broker in the name of the Pension Trust;
- Funds are transferred to the broker to commence investing;
- Once funds are with the broker you may buy and sell whatever shares you want;
- As with all investments in a Pension Trust, dividend income & CGT are tax-free;
- At any time funds can be re-directed to other investments such as property.

or on death;

- Upon retirement you can receive 25% of the accumulated funds tax-free. The remainder is available on a draw-down basis and is subject to income tax in the normal way.

The balance of the Fund (if any) can be used in one or more of the following ways:—

- Full encashment, subject to marginal rates (not available on death);
- Annuity purchase;
- Transfer to ARF (Approved Retirement Fund).

Contact: Brian Culliton,
Foresthill Financial Planning.
Tel: 01 - 469 3716;
email: info@foresthill.ie.



Money makes the world go round

When can Funds be accessed?

- From age 60 onwards, but at age 50 if you retire early, or at any age (if you retire due to ill-health)

BTU news

sponsor Ideal Standard/Armitage Shanks

btu day out at the seaside

The BTU outing at Portmarnock Golf & Country Club was sponsored by Ideal Standard/Armitage Shanks. The very large turnout enjoyed a great day weatherwise with the condition of the course, the food, hospitality and general craic making for a memorable occasion. Results were as follows:—

Overall Winner

Winner — Sean Brady (43 pts).

Class 1 (1 to 12)

Winner — Eamon Vickers (36 pts);

Second — Ger Hutchinson (36 pts);

Third — Tony Reilly (36 pts).

Class 2 (13 to 18)

Winner — John Littlefield (40 pts);

Second — Bernie Costelloe (36 pts);

Third — Brendan Sheehan (34 pts).

Class 3 (18+)

Winner — Garvin Evans (37 pts);

Second — Noel McKeon (36 pts);

Third — Pdraigh Gillan (36 pts).

Front 9

Winner — Michael McGlynn (22 pts).

Back 9

Winner — Graham Fay (20 pts).

Visitor

Winner — Dave Pepper (32 pts).



Jim Ennis, Ideal Standard/Armitage Shanks, Sponsor with Sean Brady, Overall Winner, and Michael Morrissey, Captain



Jim Ennis, Ideal Standard/Armitage Shanks, Sponsor with Garvin Evans, Winner, Class 3 and Michael Morrissey, Captain



Jim Ennis, Ideal Standard/Armitage Shanks, Sponsor with Noel McKeon 2nd, Class 3, and Michael Morrissey, Captain



Jim Ennis, Ideal Standard/Armitage Shanks, Sponsor with Eamon Vickers, Winner, Class 1 and Michael Morrissey, Captain



Jim Ennis, Ideal Standard/Armitage Shanks, Sponsor with John Littlefield, Winner, Class 2, and Michael Morrissey, Captain

Finheat Wheel Spins Full Circle!

As we went to press bs news learned of the dramatic merger between Finheat Ltd and Liberty Air Technology Ltd. This is a story of major significance, not just on the business front, but also for the two principal individuals involved — Tim O'Flaherty and Jim King. In many ways it re-affirms their mutual respect for one another, and friendship, which has spanned more than a quarter of a century.

To understand the full significance of this merger it is important to recall the origins of both companies. Not too long after Tim O'Flaherty originally founded Finheat approximately 30 years ago, Jim King — an enthusiastic and very driven young man — joined him as sales engineer. He thrived on the experience, not least because of the mentoring he received from Tim, even then one of the building services industry's leading and most respected father figures. Over the next couple of years the business flourished, growing year on year despite the sometimes fluctuating nature of the industry, and Irish economy as a whole.

As an industry innovator Tim was constantly conceiving new ideas, one of which was the formation of Liberty Air Technology. Shortly after he set it up Pat Gough, a consulting engineer, joined him as partner in this new venture and together they developed it into the market force it is today.

As Liberty grew it took up more and more of Tim's time and so, approximately 25 years ago, both he and Jim concluded a deal whereby Jim King became the owner of Finheat Ltd. It was a seamless process heralding a new era for both, rather than a mere clinical buy-out.



Jim King, Managing Director with Pat Keane, Sales Director; Tim O'Flaherty, Chairman; Pat Gough, Technical Director; and Anthony Kelly, Director.

Since then both companies have prospered. There were different stages over the last 25 years or so when either, and indeed both, had to contend with difficult times but today they each represent very strong and secure business entities. Throughout that time Tim and Jim have remained close, confiding in one another and seeking/providing advice where appropriate.

Not surprisingly then, with both looking to further develop their businesses and seek new challenges over the last six months, their casual conversations turned more serious and led to the obvious conclusion. Hence the merger announced as we went to press with this issue.

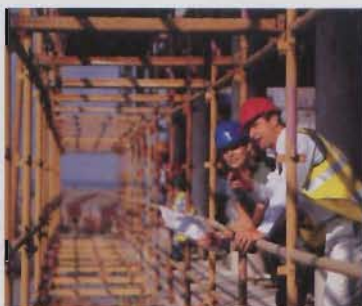
While undoubtedly very much a story about two particular individuals, both Tim and Jim are quick to point out that the success they have enjoyed to date is very much a collective team effort with their respective colleagues. There are far too many to name them all but it is important to acknowledge those at senior managerial level — Pat Gough, Pat Keane and Anthony Kelly — all of whom are now directors of the new venture (see caption on photograph).

As with all genuine partnerships, the status of the constituent elements within the new structure are equal. Hence there will be no job losses as a result of the merger, and no shedding of suppliers or product ranges. Moreover, just as Finheat and Liberty emerged from the same embryonic source, the wheel has now turned full circle with both joining forces to create a new entity bearing both the Finheat and Liberty identity.

Congratulations to all concerned.

face to face

BRIAN GERAGHTY



As incoming Chairman of CIBSE Republic of Ireland Region Brian Geraghty has the unenviable task of following in the footsteps of Kevin Kelly, under whose stewardship the Region has reached new levels of professionalism. That said, as Vice Chair Brian has been an integral and very active player in last year's programme. Indeed, as he intends not only to maintain but to strengthen the operational committee and sub-committee structures already in place, continuity of momentum is guaranteed.

Brian has a very definite agenda in mind for the coming 12 months but the overriding objective is to capitalise and expand on the fantastic achievements of the last couple of years.

So, where do you start Brian?

"From the outset, it is essential we realise that building services engineering is all-embracing ... it does not end when the theoretical, inception and design stages of a project are completed. There is another major stage, and that's construction. Unfortunately, students and graduate engineers often freely admit they know very little about the construction stage, yet it's an extremely important and very necessary part of building services engineering. I intend to broaden the applied knowledge base in this area for our students and graduates alike."

How do you go about that?

"CIBSE has always maintained very close contact with the colleges and played an instrumental role in promoting building services engineering among students. The superior skills of well-educated, well-informed, building services engineers were never more in demand than today. The architect makes the building look good ... most of the time! The structural engineer makes sure it doesn't fall down, or blow away; and the building services engineer has to make it all work. Innovative design to reduce energy usage and maximise the potential of renewable resources in buildings are crucial to sustainable engineering."

"I'm eagerly looking forward to working with the colleges to promote and advance these objectives and I hope they're looking forward to working with me. DIT Kevin St has been particularly pro-active in devising more dedicated building services programmes and has now established new benchmarks linking the educational process with the industry's needs. The ever-increasing number of CIBSE student members reflects this positive development. I also have plans for a "Young Building Services Engineer Award" to further reinforce emerging talent."

What do you offer established engineers?

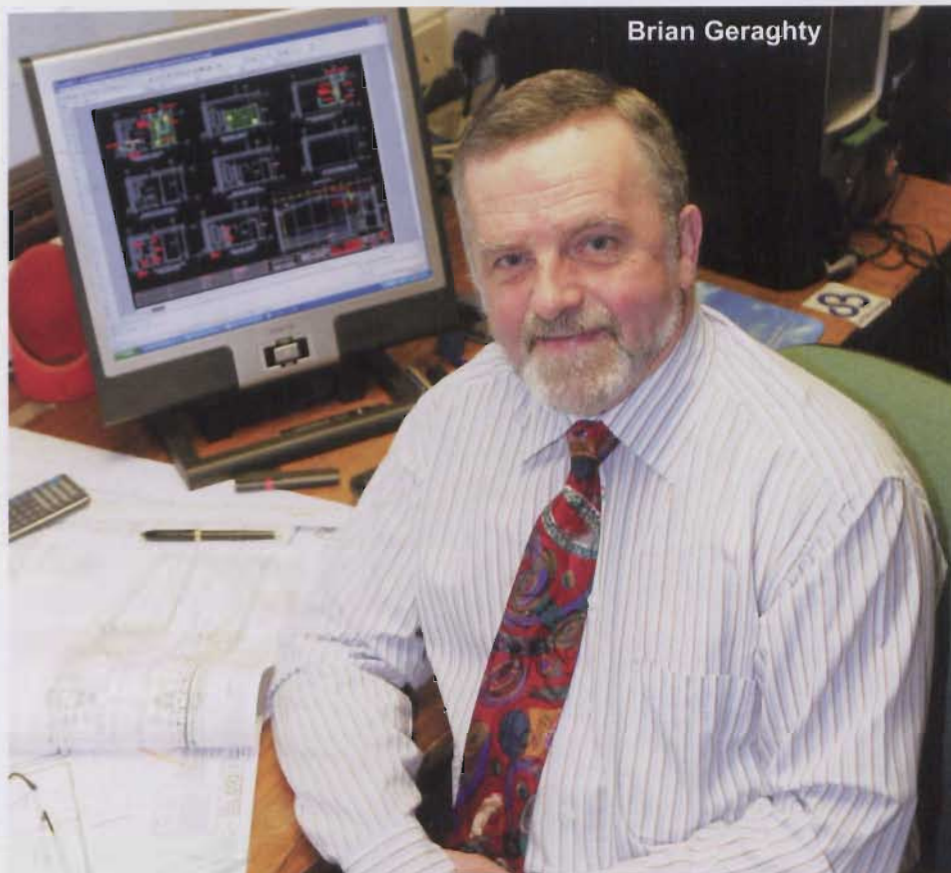
"Looking to our members nationwide, the intention is to strengthen still further the programme of locally-based seminars and lectures. Michael McNerney has driven this initiative over the last 12 months with attendance levels at all regional-based events increasing significantly. Michael has encouraged each area to take ownership and responsibility for its own affairs and CIBSE as an organisation, in addition to the building services sector as a whole, has benefited enormously."

face to face

BRIAN GERAGHTY

"It is essential we realise that building services engineering is all-embracing ... it does not end when the theoretical, inception and design stages of a project are completed."

"We must ensure that we are consulted, and that we contribute to, Government decision-making in respect of all these issues."



What of the other construction professions?

"Spreading awareness must also extend to other groups within the construction process. The high technical quality and relevance of the CIBSE annual programme of events has raised our profile considerably with architects, property and facility managers, quantity surveyors, and so on. We intend to capitalise on this momentum by forging closer links with these sectors' representative bodies such as the RIAI, IPFMA, and all other relevant bodies."

Has CIBSE an ear in Government?

"CIBSE has always been key player within the construction process but, to some extent, we have been too introverted in our outlook. However, over the last 12 months in particular we have put down a marker whereby others within construction have had to sit up and take notice."

"This culminated with our incredibly-successful conference on the sustainable design of building services. We had an amazing speaker line-up of home-based and international experts who addressed the 250-strong delegate attendance. Noel Ahern, TD, Minister of State at the Department of the Environment & Local Government, also spoke."

"I now intend to establish the CIBSE credentials at this most senior level. We have a wealth of expertise and knowledge to bring to the table in respect of sustainability, CO₂ emissions, energy usage, etc. We must ensure that we are consulted, and that we contribute to, Government decision-making in respect of all these issues."

Can these objectives be realised?

"As Chairman, I can only be involved in a small part of organising the work of the Region and must rely heavily on the committee, and various sub-committees, to undertake the really important work. I'm fortunate that we have a dynamic, dedicated and extremely capable committee in place who, as Kevin my predecessor commented, works tirelessly on behalf of the Region."

"An added bonus is that Margaret Dolan is my Vice-Chairman. Margaret was a committee member for nine years and served as Honourary Secretary for seven years. I take great comfort from the team behind me and it is against that background that I confidently look forward to the coming 12 months."

CIBSE News

Preparing for EPBD



Conor Clarke, OPW

Preparing for the Energy Performance Building Directive (EPBD) in both new and existing office buildings poses a considerable problem for all building owners but, for large property owners/occupiers such as the Office of Public Works (OPW), is it an even greater challenge.

It is against that background that Conor Clark of the OPW presented the recent CIBSE lecture on EPBD. The OPW has over 250 buildings and will soon be

legally required to display an energy certificate in a prominent position clearly visible to the public in each. In preparation for the Directive, OPW's Energy Conservation Unit has been installing highly-sophisticated, web-based, energy monitoring units in all large state buildings over the last two years.

These units monitor and record electricity and heating fuel consumption on a 15-minute basis with the collected data automatically transferred over the Internet to a dedicated energy server database, where it can be instantly interrogated via the OPW's new Energy Website. This data will facilitate the automatic generation of up-to-date energy labels for each building using the "operational rating" method.

This project has been part-funded by Sustainable Energy Ireland. In order to minimise energy consumption in each of these buildings, each has also been fitted with a Building Management System, which

controls all the HVAC plant. These BMS are linked back and monitored by a central BMS server.

To date, most energy professionals have relied on energy data published by UK research establishments. The huge volume of energy consumption information that is being collected from OPW's portfolio will provide invaluable data for the establishment of energy consumption benchmarks, specifically tailored for the Irish market for many different types and generations of buildings.

It is also a key aim for the OPW to ensure that the energy performance of all new buildings is maximised from the earliest design stages. To this end, the OPW is utilising the latest in dynamic simulation and CFD modelling techniques to optimise natural ventilation strategies and increase energy performance to the highest levels possible, thus ensuring high scoring energy labels in the future.

CIBSE AGM

The recently-held CIBSE AGM proved a very positive occasion with those in attendance hearing details of one of the most successful years in the affairs of the Republic of Ireland Region. Outgoing Chairman Kevin Kelly gave an excellent round-up, while incoming Chairman Brian Geraghty covered a multitude in his first address (see Face to Face page 30). Officers, committee members and regional representatives for the coming term are:—

Chairman: Brian Geraghty; Vice Chairman: Margaret Dolan; Hon. Sec: Gerard Keating; Hon. Treasurer: Alan Duggan; Past Chairman: Kevin Kelly; Soc Sec: Tony McKinley. Committee: Greg Traynor; Kevin O'Connell; Ciaran Coffey; Brian Sterling; Mary Carr; Jim Fogarty; Lee Harrison; Declan Monaghan; Eamonn Burkett; Kevin Tracey; Michael McNerney; Keith Sunderland; Ken Beattie; Pat Lehane; Colin Murphy; Eugene Phillips. Cork: John Burgess; Galway: Bill Noone; Limerick: Liam Kavanagh; Waterford: Mervin Doyle.



Another Side Of ...

Paul O'Donnell

Anyone who knows Paul O'Donnell of Unipipe will testify that, whatever he undertakes, he does so with gusto. So, in looking at flying, his "other side of", it's no surprise to find that it is not the gentle pursuit of gliding, or pleasant hops about the country that attracts him. Paul's idea of flying for fun is aerobatics.



Paul first learned to fly 20 years ago and has indulged his passion ever since. His enthusiasm for the sport also extends to building aircraft. In fact, he once built a unique one-seater bi-plane with a rear-mounted engine which he assembled in the company's offices in Southern Cross Business Park, Bray, Co Wicklow. While fun to fly, he quickly tired of that ... it was not a plane for aerobatics.

Not one to do things by half, when Paul purchased his current plane it was an Extra 300L, the world's most successful certified sport and performance category aerobatic aircraft. "For pure power, handling and performance, nothing matches the Extra 300L", says Paul, "essentially, it's an aircraft that takes exhilaration to the extreme."

Paul attends, and participates in, aerobatic competitions at various air shows throughout Ireland and the UK. He acknowledges the "on the edge" nature of the sport but stresses that safety regulations

are extreme, thereby minimising the risks.

"It's also good for business", says Paul. "My plane is bedecked in the Unipipe livery (see above) which results in fantastic exposure. I have also used it to travel to job sites throughout the country and there is no denying the added cache of being known to have flown in to a small local airfield for a meeting.

"Funnily enough, I have even done a number of large projects in places like the Isle of Man. These I have won in competition against UK-based suppliers, partly because I can be on site, despite travelling from Dublin, far quicker than they can.

"Ultimately though it is about the excitement, the fun, the competition, the adrenaline rush. As to how long I'll keep doing it ... who knows? In the meantime I'm taking helicopter flying lessons and have my eye on a patch of greenery near the office which would serve as the perfect helipad!"

sponsor Kilkenny Refrigeration Wholesale

follow me up to carlow

A very large turnout followed the RACGS last month to Carlow Golf Club for the first outing of the current season. The course was in excellent condition and the weather held until everyone had completed their round. Sponsor for the day was Kilkenny Refrigeration Wholesale and Declan Deegan of KRW was there to present the prizes after the meal later that evening. Results were as follows:—

Overall Winner

Winner — Billy Queally (37 pts).

Class 1

Winner — David Kirwan (37 pts);

Second — Michael McLoughlin (35 pts);

Third — Michael Clancy (33 pts).

Class 2

Winner — Martin O'Connor (35 pts);

Second — Mark Kiely (33 pts);

Third — Domnick Ward (32 pts);

Front 9

Winner — Eamon Murphy (16 pts).

Back 9

Winner — Frank O'Sullivan (18 pts).



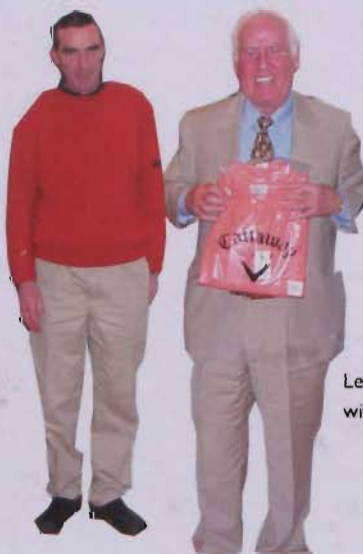
Declan Deegan, KRW Sponsor with Billy Queally, Overall Winner and Domnick Ward, Captain



Declan Deegan, KRW Sponsor with David Kirwan, Winner, Class 1 and Domnick Ward, Captain



Michael McLoughlin, 2nd Class 1 and Domnick Ward, Captain



Left: Declan Deegan, KRW Sponsor with Eamon Murphy, Winner, Front 9



Frank O'Sullivan, President with Martin O'Connor, Winner, Class 2; Declan Deegan, KRW Sponsor and Domnick Ward, Captain



Right: Mark Kiely, 2nd, Class 2 with Domnick Ward, Captain

woodleigh & ability at citywest

Woodleigh Ventilation and Ability Fan Coil Units held their annual golf outing at Citywest Golf Club recently. As always, the hospitality and prizes were excellent, the format of both ladies and men receiving separate prizes being retained. For full results please see right:—



Dan Chambers, Woodleigh Ventilation with mens winner Steve Jones, Glow Heating, and Keith Grant, Ability FCU



Dan Chambers, Woodleigh Ventilation with ladies winner Patricia Ahern, JV Tierney, and Keith Grant, Ability FCU



Colin Murphy, Homan O'Brien, winner back 9



Gerard Cleary, Cleary Engineering, winner Nearest the Pin

Gentlemen

Winner — Steve Jones, Glow Heating (39 pts);
Second — Dermot Murphy, Portlaoise Rewinds (39 pts);
Third — Derek Emerson, Temec (36 pts).

Ladies

Winner — Patricia Ahern, JV Tierney (36 pts);
Second — Mary Ward (35 pts).

Front 9

Winner — Garvin Evans (18 pts).

Back 9

Winner — Colin Murphy (19 pts).

Nearest the Pin

Winner — Gerard Cleary,
Cleary Engineering.

Longest Drive

Winner — Dermot Barry, Elenco.



Dan Chambers, Woodleigh Ventilation with second placed Dermot Murphy, Portlaoise, and Keith Grant, Ability FCU



Dan Chambers with Lucette Chambers and Damian Mooney, Directors, Woodleigh Ventilation

Plumb Lines

heard it on the grapevine ...



GIRL POWER STALKS CIBSE



Mary Carr (left) is a services engineer following in Margaret Dolan's footsteps. Now serving her second term on CIBSE Committee, she is pictured with Brian Geraghty, Chairman and Margaret Dolan, Vice-Chairman.

Having spent nine years as a CIBSE Committee member, and seven of those as Honourary Secretary, Margaret Dolan — newly-elected CIBSE Vice-Chairman — is anything but the token female. Nonetheless, it's important to acknowledge her appointment and the significance of her achievement in what is still a male-dominated profession ... or is it? Come on all you female engineers out there ... let's hear from you.

SCOTLAND: 'SAUDI ARABIA OF RENEWABLES'

The Scottish Renewables body aims to make Scotland the "Saudi Arabia of Renewable Energy". Ever-larger renewable schemes are being planned, the latest to receive approval being a massive 140-turbine onshore wind farm on a site measuring almost 30 square miles. Known as the Whitelee project, it will be the largest scheme of its type in Europe. However, such is the momentum of the wind farm drive in Scotland that planning proposals for two other wind farms — which will be twice the size of Whitelee — have already been lodged.

A LOAD OF HOT AIR!

In February I told you of Brighton & Hove City Council's plan to place wind



turbines on the roofs of houses. Expert opinion commissioned by the Council confirmed that your average house, no matter how well built, was not designed to withstand the stresses even the smallest of wind turbines would generate. Thank heaven for "experts" ... without them we would have to rely on common sense!

3°C HOTTER MEANS WORLD DISASTER

The Intergovernmental Panel on Climate Change (IPCC) has predicted that the world will warm by as much as 3°C by the year 2050. It also states that the implications of such a rise are drought and famine which will affect 400 million people and devastate wildlife.

More extreme weather is also predicted, with sea-level rises leaving many coastal areas at greater risk of flooding.

The most alarming aspect of the prediction is that it is no mere hypothesis — the IPCC scientists are emphatic that it is going to happen, no matter what we do about harmful emissions in the interim. They reckon it is a case of damage limitation rather than prevention.

CONGRATULATIONS ESME!

Congratulations to Esme Hennessey on the birth of her new baby son, Ronan. My spies tell me that mother and child are all in excellent fettle. I suppose I should also mention Barry ... I gather he too and a part to play in this happy occasion!

JIM & TIM RE-UNITE

Over 30 years in this business I have seen people leave one company to set up another in competition; partnerships break-up acrimoniously; and various individuals fall out big time with one another.

It's nice, therefore, to bring you a "feel good" story in the shape of Tim O'Flaherty and Jim King getting back together. Having been "mentored" by Tim at Finheat, Jim subsequently bought the company from Tim who went on to form Liberty Air Technology. Despite being in a related industry sector they remained close and now, 25 years later, they have merged the two businesses. Maybe I'm getting sentimental in my old age but I really do think it's a nice story.

MAD DOGS & ENGLISHMEN

With parts of south-east England facing the possibility of its worst drought in a century, local water authority Thames Water is seriously considering towing icebergs from the Arctic back to London to meet demand.

This is an idea first mooted 50 years ago in California and re-visited at various intervals down through the years by other countries such as Saudi Arabia. However, while technically and practically possible, scientists point out that something like 80% of the mass of an iceberg would be lost on the journey from the Arctic to the UK.

As the old saying goes ... Mad Dogs & Englishmen!



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